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## NOTICE OF ALLOWANCE AND FEE(S) DUE

513 7590 07/12/2010 WENDEROTH, LIND & PONACK, L.L.P. 1030 15th Street, N.W., Suite 400 East

Washington, DC 20005-1503

EXAMINER				
DANIEL, JAMAL D				
ART UNIT	PAPER NUMBER			
3723				
DATE MAILED: 07/12/2010				

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
10/559,807	12/08/2005	Kenichi Haratake	2005_1865A	7358			
TITLE OF INVENTION: DEVICE AND METHOD FOR INSTALLING PISTON RING							

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/12/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further c indicated unless correcte maintenance fee notificat	form should be used for correspondence including d below or directed oth ions.	or trans ig the F ierwise	smitting the ISSU atent, advance or in Block 1, by (a							
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Washington, DC	20005-1503									(Depositor's name)
										(Signature)
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APPLICATION NO.	FILING DATE			FIRST NAMED INVENT	FOR		ATTO	RNEY DOCKET NO.	CONFI	RMATION NO.
10/559,807	12/08/2005			Kenichi Haratake				2005_1865A		7358
TITLE OF INVENTION:	DEVICE AND METH	OD FO	R INSTALLING	PISTON RING						
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nonprovisional	NO		\$1510	\$300		\$0		\$1810		10/12/2010
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DANIEL, J			3723	029-281100						
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3. ASSIGNEE NAME AN	ND RESIDENCE DATA	A ТО В	E PRINTED ON	THE PATENT (print or	r type	:)				
	ess an assignee is ident in 37 CFR 3.11. Comp	ified be oletion o	low, no assignee of this form is NO						cument	has been filed for
(A) NAME OF ASSIC	NEE			(B) RESIDENCE: (C	TTY a	and STATE OR C	OUNT	RY)		
Please check the appropri	ate assignee category or	catego	ies (will not be pr	inted on the patent):	O I	Individual Co	rporati	on or other private gro	up entity	Government
4a. The following fee(s) a	re submitted:		41	Payment of Fee(s): (		e first reapply ar	y prev	iously paid issue fee	shown al	bove)
☐ Issue Fee ☐ Publication Fee (No	small entity discount p	ermitte	d)	A check is enclose  Payment by credit		. Form PTO-2038	is atta	ched.		
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5. Change in Entity Stat				_						
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#### UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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1030 15th Stree	, N.W.,	ART UNIT	PAPER NUMBER			
Suite 400 East Washington, DC 20005-1503			3723 DATE MAILED: 07/12/2010			

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 964 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 964 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Application No. Applicant(s) 10/559 807 HARATAKE, KENICHI Notice of Allowability Examiner Art Unit JAMAI DANIFI 3723 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to amendments filed 4/12/2010. 2. The allowed claim(s) is/are 1 and 4-7. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) \( \subseteq \text{Some\* c) \subseteq \text{None of the:} a) $\square$ All 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \* Certified copies not received: \_\_\_\_\_. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date 3. Information Disclosure Statements (PTO/SB/08), 7. Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other .

/JAMAL DANIEL/ Examiner, Art Unit 3723 Application/Control Number: 10/559,807 Page 2

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### REASONS FOR ALLOWANCE

 The following is an examiner's statement of reasons for allowance: The specific limitations of

"wherein the centering part of the piston pressing member is formed into the shape of a cylindrical cap that is opened downwardly and has a notch part defined by cutting off a part thereof so as not to come

into contact with the connecting rod of the piston, and a tapered inner wall surface that is widened downwardly so as to come into contact with the upper end edge of the piston" are not anticipated or made obvious by the prior art of record in the examiner's opinion. For example, US 5,435,056 to Liechty et al shows the concave piston receiving base and piston ring expander, but Liechty et al fails to disclose the centering pressing member in the form of a cylindrical cap with a notch cut out for avoiding the piston connecting rod. Liechty et al uses a carousel (8) where each piston is bolted to its own mounting assembly which must each be individually centered every time it comes around to lower a piston on to the ringing base. US 3,707,027 to Davis et al teaches using a cone shape to center a piston into the borehole of an engine, but fails to disclose a notch for avoiding the piston connecting rod. Said notch is novel in the Examiner's opinion with respect to it allowing for a single centering part to be used with the carousel of piston members without having to disassemble the mount to free the

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

piston, thus eliminating a separate mounting and centering part for each piston.

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/Joseph J. Hail, III/

Supervisory Patent Examiner, Art Unit 3723